

## Product datasheet for **MR227676**

### Mmp19 (NM\_001164197) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp19 (NM_001164197) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR227676 representing NM\_001164197  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACTGGCAGCAGCTGTGGCTGGCATTCTTACTTCCCATGACAGTCTCAGGCCGGCTCTGGGCCTA  
 CAGAGAAGGAGGAGCTTTGGATTACCTGTTGCAGTATGGGTATCTACAGAAACCTCTAGAAGGAGCTGA  
 TGACTTACAGGCTGGAAGATATCACAGAGCTTTAAGAAGTTCCAGGAAGCATCTGGACTGCCATTTC  
 GGTGAGATGGATGACGCCACAAGGGCCCGTATGAAGCAGCCCGTTGTGGTCTGGAGGATCCCTTCAACC  
 AGAAATCTCTAAATACCTGCTTCTGGGCCACTGGAGAAAGAAGAACTTGACATTCGCGATCTTCAATGT  
 GCCCTCCACCCTCTCACTCCCAGAGTCCGAGCAGCCCTGCATCAAGCCTTAAAGTACTGGAGCAGCGTG  
 GCTCCTGACCTTCCGGGAGGTGAAAGCTGGTGGGCTGACATTCGCTCTCTTCCATGGCCGCCAAA  
 GCCTGTACTGCTCAATACCTTTGATGGCCTGGAAAGGTCTGGCCCATGCTGACATCCAGAACTTGG  
 GAGTATACACTTTGATAAAGATGAAGTCTGGACTGAGGGGACCTATCAAGGAGTGAACCTGCGCATATT  
 GCGGCCATGAAGTGGGCCATGCCCTAGGACTTGGGCACTCCCGATATACCCAGGCACTCATGGCTCCTG  
 TCTATGCTGGCTACCAGCCCTTCTCAAGCTGCATCCAGATGATGTGGCAGGGATCCAGGCTCTCTATGG  
 CAAGAGGAGCCCAGAGACAAGAGATGAGGAGGAAGAGACCAGATGCTCACTGTGTCTCCAGTACTGCA  
 AAACCTGGTCCCATGCCAAACCCCTGCAGCGGTGAGGTGGACGCCATGGTGTGGGCTCGTGGGAAGA  
 CTTATGCTTTCAAGGGCGACTATGTGTGGACTGTAAACAGATTCAAGGGCCAGGCCCTTGTCCAAATATC  
 TGCCCTTTGGGAGGGCTTCTGGAAACCTAGATGCTGCCGTTTACTCTCCCGGACACGACGGACTCAT  
 TTCTTCAAGGGAACAAGGTGTGGCGGTATGTGGATTTCAAGATGTCTCCTGGCTTCCCATGAAATTC  
 ACAGAGTAGAGCCCAACCTGGATGCAGTCTCTACTGGCCTGTTAATCAAAGGTGTTCCCTGTTAAAGGG  
 CTCAGGATACTGGCAATGGGATGAAGTGGCCAGAACTGACCTTAGCCGCTACCCTAAACCAATCAAGGAA  
 CTGTTTACTGGAGTGCCAGACCGACCCTCGGCAGCTATGAGCTGGCAAGATGGCCAAAGTCTACTTTTTCA  
 AGGGCAAAGAGTATTGGCGCCTTAACCAGCAACTTCGAGTGGCAAAGGGCTATCCAGAAATACGACACA  
 CTGGATGCACTGTGGTTCTCAGACTCCAGACACTAAGTCAACCGGGGACGTTACTCCTTCAACCACA  
 GACACAGTCTTGGGTACCACTCCATCAACCATGGGCTCAACCTTGGACATTCCTCAGCTACAGACTCTG  
 CCTCCCTCTATTCTCTGCTAATGTCACCCTGCTAGGGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227676 representing NM\_001164197  
 Red=Cloning site Green=Tags(s)

MDWQQLWLAFLLPMTVSGRALGPTEKEAVLDYLLQYGYLQKPLEGADDFRLEDITEALRTFQEASGLPIS  
 GQMDDATRARMKQPRCGLEDPFNQSLKYLKLLGHWRKKNLTFRIFNVPSTLSLPRVRAALHQAFKYWSSV  
 APLTFREVKAGWADIRLSFHGRQSLYCSNTFDGPGKVLAHADIPELGSIHFDELDWTEGTYQGVNLRII  
 AAHEVGHALGLGHSRYTQALMAPVYAGYQPFKFLHPDDVAGIQALYGKRPETRDEEEETEMLTVSPVTA  
 KPGMPNPNCSGEVDAMVLGPRGKTYAFKGDYVWTVTDSGPPLFQISALWEGLPGNLDAAVYSPRTRRTH  
 FFKGNKVWRYVDFKMSPGFPMKFNRPENLDAALYWPVNQKVFLLFKGSGYWQWDELARTDLSPYKPIKE  
 LFTGVDPDRPSAAMSWQDGVYFFKKEYWRLNQLRVAKGYPRNTTHWMHCGSQTPDNTSSTGDVTPSTT  
 DTVLGTTPSTMGSTLDIPSATDSASLSFSANVTLLGA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9008\\_f01.zip](https://cdn.origene.com/chromatograms/mm9008_f01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001164197

**ORF Size:** 1581 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq Size:** 3275 bp

**RefSeq ORF:** 1368 bp

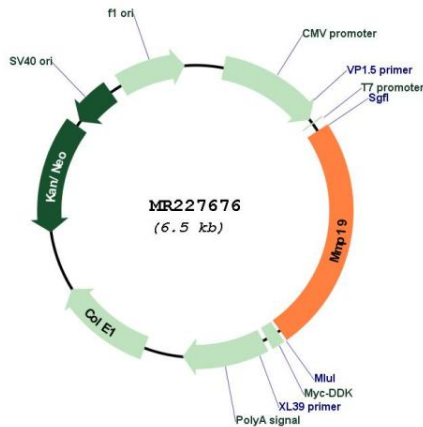
**Locus ID:** 58223

**Cytogenetics:** 10 77.16 cM

**MW:** 51.4 kDa

**Gene Summary:**

This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, wound repair, progression of atherosclerosis and tumor invasion. The encoded preproprotein undergoes proteolytic processing to generate a mature, zinc-dependent endopeptidase enzyme. Mice lacking the encoded protein develop a diet-induced obesity due to adipocyte hypertrophy, exhibit decreased susceptibility to chemical carcinogen-induced skin tumors and early onset of tumoral angiogenesis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2016]

**Product images:**


Circular map for MR227676